

### Abstract

The inventive SS7 signaling server for routing SS7 links, includes a signaling transfer point (STP) and a signaling application server (SAS). STP and SAS have different functionalities. The STP has at least one external interface to connect the STP via at least one SS7 link to at least one telecommunications unit, and an internal interface to connect the STP to the SAS. The STP processes incoming SS7 messages, e.g. in the SCCP layer. The SAS is capable to process at least one, advantageously at least two different application service requests. The STP identifies a single application service request in one incoming SS7 message and provides the identified single application service request to the SAS for further processing. The SAS has e.g. two TCAP processes to identify two different application services, e.g. INAP and MAP. STP and SAS are interconnected via an internal interworking protocol, e.g. using TCP/IP.